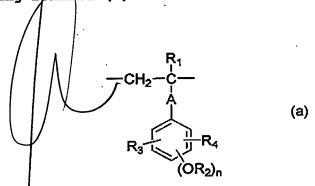
WHAT IS CLAIMED IS:

- 1. A negative-working resist composition for electron beams or X-rays comprising (A) a compound generating an acid and/or radical species by the irradiation of electron beams or X-rays, (B) a resin which is insoluble in water and soluble in an alkali aqueous solution, (C) a crosslinking agent causing crosslinking with the resin of component (B) by the action of an acid, and (D) a compound having at least one unsaturated bond capable of being polymerized by an acid and/or a radical.
- 2. The negative-working resist composition for electron beams or X-rays according to claim 1, wherein the resist composition further contains (E) an organic basic compound.
- 3. The negative-working resist composition for electron beams or X-rays according to claim 1, wherein the resin of component (E) is the resin having a repeating unit shown by the following formula (a):



wherein R₁ represents a hydrogen atom, a halogen atom, a cyano group, or an alkylor haloalkyl group which may have a substituent;

R2 represents a hydrogen atom, or an alkyl, cycloalkyl, aryl, aralkyl, or acyl group which may have a substituent; R3 and R4, which may be the same or different, each represents a hydrogen atom, a halogen atom, a cyano group, or an alkyl, cycloalkyl, alkenyl, aralkyl, or aryl group which may have a substituent; A represents a single bond, or a divalent alkylene, alkenylene, cycloalkylene, or arylene group which may have a substituent, or -0-, $-SO_2$ -, -0-C \bigcirc - R_5 -, -CO-O- R_6 -, or -CO-N(R_7)- R_8 -; R_5 , R_6 , and Re, which may be the same or different, each represents a single bond, or an alkylene, alkenylene, cycloalkylene, or arylene group, which may have a substituent, singly or a divalent group formed by combining the above-described group and at least one kind selected from an ether structure, an ester structure, an amide structure, squrethane structure, and a ureido structure; R, represents a hydrogen atom, or an alkyl, cycloalkyl, aralkyl, or aryl group which may have a substituent; and n represents an integer of from 1 to 3; and also plural R_2s , or R_2 and R_3 or R4 may combine with each other to form a ring.

- 4. The negative-working resist composition for electron beams or X-rays according to claim 1, wherein the compound of component (A) is selected from the sulfonate compounds of sulfonium or iodonium
- 5. The negative-working resist composition for electron beams or X-rays according to claim 1, wherein the compound of

component (A) is the sulfonic acid ester compound of N-hydroxyimide or a disulfonyldiazomethane compound.

- 6. The negative-working resist composition for electron beams or X-rays according to claim 1, wherein the crosslinking agent of component (C) is a hydroxymethylated, alkoxymethylated, or acyloxymethylated phenol compound.
- 7. The negative-working resist composition for electron beams or X-rays according to claim 1, wherein the crosslinking agent of component (C) is an alkoxymethylated or acyloxymethylated melamine compound or resin, or an alkoxymethylated or acyloxymethylated urea compound or resin.
- 8. The negative-working resist composition for electron beams or X-rays according to claim 1, suitable for electron beam irradiation under the accelerated voltage condition of at least 75 KeV.
- 9. A negative-working resist composition for electron beams or X-rays comprising
- (A) a compound generating an acid and/or radical species by the irradiation of electron beams or X-rays,
- (B') a resim having at least one unsaturated bond polymerizable by an acid and/or an alkali, which is insoluble in water but soluble/in an alkali aqueous solution, and
- (C) a crosslinking agent causing crosslinking with the resin (B') by the action of an acid.

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10. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein the resin of component (B') is a resin containing the repeating unit shown by following formula (a');

$$\begin{array}{c} R_{1}' \\ -CH_{2} - C - \\ A_{1} \\ R_{5}' \\ R_{6}' \\ (R_{2}'O)_{x} \\ (OR_{3}')_{y} \end{array} \qquad (a')$$

wherein R_1 ' represents a hydrogen atom, a cyano group, or an alkyl or haloalkyl group which may have a substituent; R_2 ' to R_4 ' each represents a hydrogen atom, a group shown by the formula (b) (c), or (d) described below, or an alkyl, cycloalkyl, aryl, aralkyl, or acyl group which may have a substituent; and

R₅' and R₆', which may be the same or different, each represents a hydrogen atom, a hydroxyl group, a halogen atom, a cyano group, or an alkyl, cycloalkyl, alkenyl, aralkyl, or aryl group which may have a substituent.

wherein R_{7} to R_{12} , R_{16} , and R_{17} each represents a hydrogen atom, a halogen atom, a cyano group, or an alkyl or haloalkyl group which may have a substituent;

 R_{13} ' and R_{14} ' each represents a hydrogen atom, a halogen atom, a hydroxy group, or an alkyl, alkoxy, or acyloxy group which may have a substituent;

R₁₅' represents a hydrogen atom or an alkyl, cycloalkyl, aralkyl, or aryl group which may have a substituent;

 R_1 represents a single bond, or a divalent alkylene, alkenylene, cycloalkylene, or arylene group which may have a substituent, or -0-, $-SO_2-$, $-0-CO-R_{20}'-$, $-CO-O-R_{21}'-$, or $-CO-N(R_{22}')-R_{23}'-$; R_{20}' , R_{21}' , and R_{23}' , which may be the same or different, each represents a single bond, or a divalent alkylene, alkenylene, cycloalkylene, or arylene group which may have an ether

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structure, an ester structure, an amide structure, a urethane structure, or a ureido structure or may have a substituent; R22' represents a hydrogen atom, or an alkyl, cycloalkyl, aralkyl, or aryl group which may have a substituent; A2 represents a single bond, -O-R21'-, or -N(R22')-R23'-; A3 represents a single bond, -SO2-, or an arylene group which may have an alkylene structure or may have a substituent; A4 represents a single bond, a divalent alkylene, cycloalkylene, or arylene group which may have a substituent, or -O-. -SO2-, -CO-. or -CO-O-R21-; x, y, and z in the formula (a') each represents 0 or 1 and m and n in the formula (c) each represents 0 or an integer of at least 1, provided that in the formula (a'), at least one repeating unit has the group of the formula (b), (c), or (d); and two of R2' to R4', or one of R2' to R4' and R5' or R6' may combine with

11. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein the resist composition further contains (D) a compound having at least one unsaturated bond polymerizable by an acid and/or a radical.

each other to form a ring.

- 12. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein resist the composition further contains (E) an organic basic compound.
- 13. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein the compound of

component (A) is selected from the sulfonate compound of sulfonium or iodonium.

- 14. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein the compound of component (A) is the sulfonic acid ester compound of N-hydroxyimide or a disulfonyldiazomethane compound.
- 15. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein the crosslinking agent of component (C) is a hydroxymethylated, alkoxymethylated, or acyloxymethylated phenol compound.
- 16. The negative-working resist composition for electron beams or X-rays according to claim 9, wherein the crosslinking agent of component (C) is an alkoxymethylated or acyloxymethylated melamine compound or resin or an alkoxymethylated or acyloxymethylated urea compound or resin.
- 17. The negative-working resist composition for electron beams or X-rays according to claim 9, suitable for electron beam irradiation under the accelerated voltage condition of at least 75 KeV.